Maryland Historical Trust

Maryland Inventory of Historic Properties number: AL-II	- -B	-/4	46				
Maryland Inventory of Historic Properties number: AL-II Name: # 1046/MD5/0V82 SAV	JPT	TK	2 M	\mathcal{C}			
The bridge referenced herein was inventoried by the Maryland St. Historic Bridge Inventory, and SHA provided the Trust with elig The Trust accepted the Historic Bridge Inventory on April 3, 200 determination of eligibility.	tate Hig	ghway detern	Adm	inistra	Febru	ary 2	001.
MARYLAND HISTORICAL Eligibility Recommended X	L TRU	ST	ot Re	comm	ended	1	· · · · · · · · · · · · · · · · · · ·
Criteria:ABCD Considerations:A							
Comments:				•••			
Reviewer, OPS:_Anne E. Bruder	Date:3 April 2001						
Reviewer, NR Program:Peter E. Kurtze		Date	e:3 .	April :	2001_		

MARYLAND INVENTORY OF HISTORIC BRIDGES HISTORIC BRIDGE INVENTORY MARYLAND STATE HIGHWAY ADMINISTRATION/MARYLAND HISTORICAL TRUST

SHA Bridge No. 1046 Bridge name MD 51 over Sawpit Run
LOCATION: Street/Road name and number [facility carried] MD 51 (Uhl Highway)
City/town Town Creek Vicinity X
County Allegany
This bridge projects over: Road Railway Water X Land
Ownership: State X County Municipal Other
HISTORIC STATUS: Is the bridge located within a designated historic district? Yes No _X National Register-listed district National Register-determined-eligible district Locally-designated district Other
Name of district
BRIDGE TYPE: Timber Bridge: Beam Bridge: Truss -Covered Trestle Timber-And-Concrete
Stone Arch Bridge
Metal Truss Bridge
Movable Bridge: Swing Bascule Single Leaf Bascule Multiple Leaf Vertical Lift Retractile Pontoon
Metal Girder: Rolled Girder: Plate Girder: Rolled Girder Concrete Encased Plate Girder:
Metal Suspension
Metal Arch
Metal Cantilever
Concrete X : Concrete Arch : Concrete Slab X : Concrete Beam : Rigid Frame : Concrete Slab X : Concrete Beam : Rigid Frame : Concrete Slab X : Concrete Beam : Rigid Frame : Concrete Slab X : Concrete Beam : Rigid Frame : Concrete Slab X : Concrete Beam : Rigid Frame : Concrete Slab X : Concrete Beam : Rigid Frame : Concrete Slab X : Concrete Beam : Rigid Frame : Concrete Slab X : Concre

DESCRIPTION: Setting: Urban	Small town	Rural	X
Describe Setting:			
east-west and Sawpit Run f	O 51 (Uhl Highway) over Saw lows north-south. The bridge ed mountains and a single far	is located in the	
Describe Superstructure an	d Substructure:		
and there have been no mare roadway width of 31 feet, 4 in The bridge was built on a bituminous wearing surfact approaches have steel guard abutments and a concrete in	i, 2-lane, concrete slab bridge jor alterations. The structure nches; there are no sidewalks 45° skew. The concrete sla e. The structure has pierce rails and wide shoulders. The intermediate pier at mid-length and has a sufficiency rating of	e is 51 feet, 8 incl . The out-to-out value is 1 foot, 9 included concrete parage substructure conth. There are flat	hes long and has a clear width is 33 feet, 8 inches. ches thick, and it has a apets and the roadway assists of two (2) concrete
concrete spalling and large condition. The concrete is severely and has shifted ap	ection report, this structure of deposits of efflorescence. scaling in places and spalling proximately 3 inches to the so, the concrete parapet is spanning.	The asphalt weag at the pier. The north. The deck	ring surface is in good e west span has spalled has some exposed and
Discuss Major Alterations:			
There have been no major patching of some cracks.	alterations to the bridge.	Inspection report	ts from 1996 detail the
HISTORY:			
WHEN was the bridge built This date is: Actual Source of date: Plaque Other (specify): State High	X Esti	• 0	es/inspection form m_
WHY was the bridge built?			
The bridge was constructed increased load capacity.	in response to the need for a r	more efficient trar	nsportation network and
WHO was the designer?			
Unknown			

WHO was the builder?

Unknown

WHY was	the	bridge	altered?

N/A

Was this bridge built as part of an organized bridge-building campaign?

Unknown

SURVEYOR/HISTORIAN ANALYSIS:

This bridge may have Nat	ional Register significa	nce for its	association	with:
A - Events	B- Person		_	
C- Engineering/ard	hitectural character	X	_	

The bridge is eligible for the National Register of Historic Places under Criterion C, as a significant example of concrete slab construction. The structure has a high degree of integrity and retains such character-defining elements of the type as the original concrete slab, abutments and wing walls, and parapet.

Was the bridge constructed in response to significant events in Maryland or local history?

Reinforced concrete slab bridges are a twentieth century structure type, easily adapted to the need for expedient engineering solutions. Reinforced concrete technology developed rapidly in the early twentieth century with early recognition of the potential for standardized design. The first U.S. attempt to standardize concrete design specifications came in 1903-1904 with the formation of the Joint Committee on Concrete and Reinforced Concrete of the American Society of Civil Engineers.

Maryland's roads and bridge improvement programs mirrored economic cycles. The first road improvement of the State Roads Commission was a 7 year program, starting with the Commission's establishment in 1908 and ending in 1915. Due to World War I, the period from 1916-1920 was one of relative inactivity; only roads of first priority were built. Truck traffic resulting from war related factories and military installations generated new, heavy traffic unanticipated by the builders of the early road system. From 1920-1929, numerous highway improvements occurred in response to the increase in Maryland motor vehicles from 103,000 in 1920 to 320,000 in 1929, with emphasis on the secondary system of feeder roads which moved traffic from the primary roads built before World War I. After World War I, Maryland's bridge system also was appraised as too narrow and structurally inadequate for the increasing traffic, with plans for an expanded bridge program to be handled by the Bridge Division, set up in 1920. In 1920 under Chapter 508 of the Acts of 1920 the State issued a bond of \$3,000,000.00 for road construction; the primary purpose of these monies was to meet the state obligations involving the construction of rural post roads. The secondary purpose of these monies was to fund (with an equal sum from the counties) the building of lateral roads. The number of hard surfaced roads on the state system grew from 2000 in 1920 to 3200 in 1930. By 1930, Maryland's primary system had been inadequate to the huge freight trucks and volume of passenger cars in use, with major improvements occurring in the late 1930's. Most improvements to local roads waited until the years after World War I.

In the early years, there was a need to replace the numerous single lane timber bridges. Walter Wilson Crosby, Chief Engineer, stated in 1906, "the general plan has been to replace these [wood bridges] with pipe culverts or concrete bridges and thus forever do away with the further expense of the maintenance of expensive and dangerous wooden structures." Within a few years, readily constructed standardized bridges of concrete were being built throughout the state.

In 1930, the roadway width for all standard plan bridges was increased to 27 feet in order to accommodate the increasing demands of automobile and truck traffic (State Roads Commission 1930). The range of span lengths remained the same, but there were some changes designed to increase the load bearing capacities. The reinforcing bars increased in thickness. Visually, the 1930 design can be distinguished from its predecessors by the pierced concrete railing that was introduced at this time.

In 1933, a new set of standard plans were introduced by the State Roads Commission. This time their preparation was not announced in the Report; new standard plans were by this time nothing special - they had indeed become standard. Once again accommodating the ever-increasing demands of traffic, the roadway was increased, this time to 30 feet. The slab span's reinforcing bars remained the same diameter but were placed closer together to achieve still more load capacity.

When the bridge was built and/or given a major alteration, did it have a significant impact on the growth and development of the area?

There is no evidence that the construction of this bridge had a significant impact on the growth and development of this area.

Is the bridge located in an area which may be eligible for historic designation and would the bridge add to or detract from the historic/visual character of the potential district?

The bridge is located in an area which does not appear to be eligible for historic designation.

Is the bridge a significant example of its type?

The bridge is a potentially significant example of a concrete slab bridge, possessing a high degree of integrity.

Does the bridge retain integrity of important elements described in Context Addendum?

The bridge retains the character-defining elements of its type, as defined by the Statewide Historic Bridge Context, including the original concrete slab, abutments and wing walls, and parapet; however, some deterioration is evident.

Is the bridge a significant example of the work of a manufacturer, designer, and/or engineer?

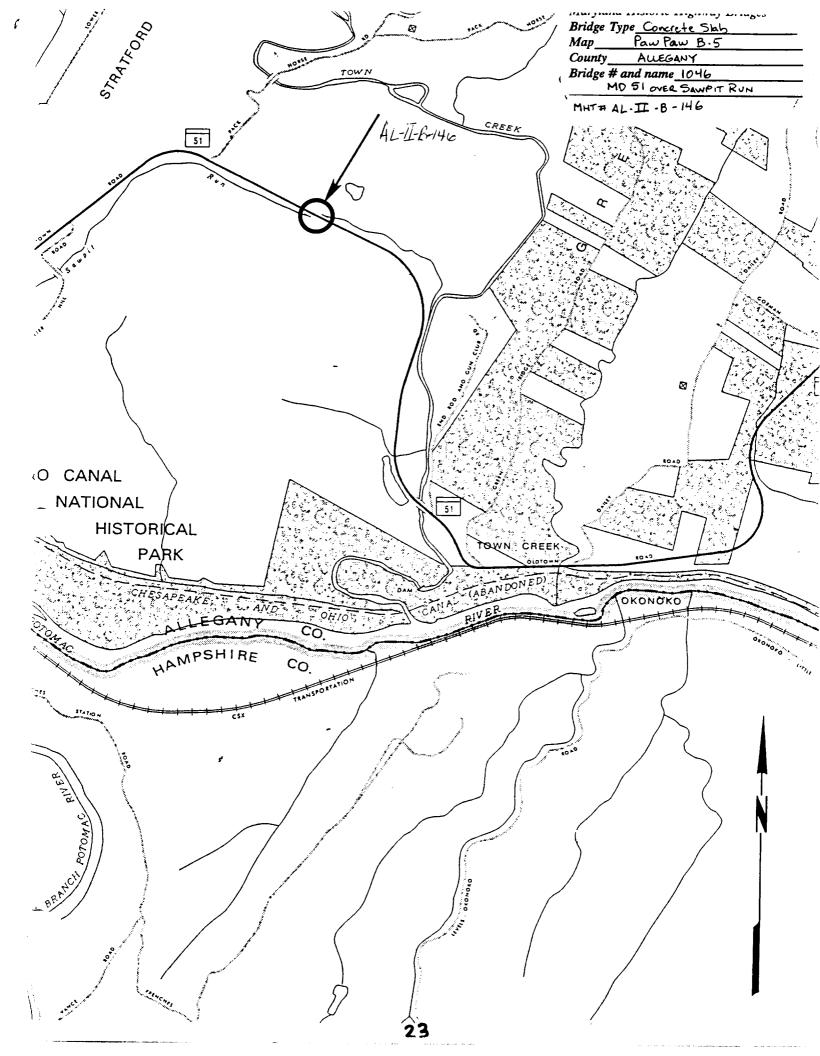
This bridge is a significant example of the work of the State Roads Commission in the 1930s.

Should the bridge be given further study before an evaluation of its significance is made?

No further study of this bridge is required to evaluate its significance.

BIBLIOGRAPHY:

BIBLIOGRAPHY:
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1930b Standard Plans. State of Maryland, State Roads Commission, Baltimore.
 Taylor, Frederick W., Sanford E. Thompson, and Edward Smulski 1939 Reinforced-Concrete Bridges with Formulas Applicable to Structural Steel and Concrete. John Wiley & Sons, Inc., New York.
Tyrrell, H. Grattan 1909 Concrete Bridges and Culverts for Both Railroads and Highways. The Myron C. Clark Publishing Company, Chicago and New York.
SURVEYOR:
Date bridge recorded3/5/97Name of surveyorCaroline Hall/Ryan McKayOrganization/AddressP.A.C. Spero & Co., 40 W. Chesapeake Avenue, Baltimore, MD 21204Phone number(410)296-1685FAX number (410)





1 AL I -B-146 2 MO 51 Over Sawp + RUN/1846 3. Allegary Co, MO 4 Ryan Mc Kay 5 3 97 6 MO SHPO 1 Lown stream elevation 3/014



AL-II-B-146 2 MO SI Over Sawpit Run 3. Allegary Co MD 4 Ryan Mc Kay 5 3/97 6 MD SHPO 7 Opstream elevation 8 2 of 4



LAL-I-B-146 7 MO SI Over Schop + Run/1046 3 Allegany Co, MD 4 Ryan Mckay 5 3/97 MO SHPO 7 Detail of upstream 2 0 4



1 AL-II-B-146 2 MO SI Over Sampit Runjoya 3 Allegany Co MD 4 Ryan Mc Kay 3 3 97 6 MD SHPO 7 West approach

8 4 5 4